

IN THE CLAIMS:

Please cancel Claims 13-15.

Please amend Claims 3 and 5-N, as follows:

A2
3. [(Amended)] The reactor of claim 1, characterized in that said dielectric layer has a thickness (e_1) along a direction perpendicular to the general surface of the substrate, said thickness being non uniform along said dielectric layer, so that the reactor has said location dependent capacitance per unit surface values.

5. [(Amended)] The reactor according to claim 1, characterized in that said dielectric layer (15) has at least one non planar-shaped external surface.

A3
6. [(Amended)] The reactor according to claim 1, characterized in that at least one of said electrodes has a non planar-shaped surface facing the substrate.

7. [(Amended)] The reactor according to claim 1, characterized in that:

said one dielectric layer is locally delimited by a surface of one of said electrodes (5a, 41b, 51b), and

said delimitation surface of said one electrode is curved.

8. [(Amended)] The reactor according to claim 1, characterized in that said dielectric layer comprises at least one of a solid dielectric layer and a gaseous dielectric layer, or a combination of the both mentioned.